

# TEST REPORT

## EN 60529

**Applicant:** TAIZHOU TAILI LIGHTING CO., LTD.  
**Address:** Unit 2, 2nd floor, NO. 11 Building, Caideng Park, Dongcheng, Linhai, Zhejiang, CN  
**Manufacturer:** TAIZHOU TAILI LIGHTING CO., LTD.  
**Address:** Unit 2, 2nd floor, NO. 11 Building, Caideng Park, Dongcheng, Linhai, Zhejiang, CN

The following sample(s) was /were submitted and identified on behalf of the clients as :

**Sample Name:** Christmas light  
**Model Number:** C  
**Model difference:** D, B, W, D/C  
**Sample Received Date:** September 14, 2022  
**Testing Period:** September 15-19, 2022  
**Report No.:** XK22090121081

**Test Requested:**

| Test Sequence | Test Item |
|---------------|-----------|
| 1             | IP4X test |
| 2             | IPX4 test |

**Test Method:** According to EN 60529:1991+A2:2013+AC:2019

**Test Result(s):** Please refer to the following page(s).

**Test Conclusion:** PASS

**Compiled by:**

*Smile Xu*

Smile Xu

**Reviewed by:**

*Nina Li*

Nina Li

**Approved by:**

*Andy Wang*

Andy Wang/Manager



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen SiCT Technology Co., Ltd.

**1. Test Item: IP4X test****(1) Detection equipment and instruments**

| Instrument name | Model     | Serial No. | Equipment manufacturers | Valid Date to |
|-----------------|-----------|------------|-------------------------|---------------|
| Test probe      | Φ1.0mm    | SiCT-SE078 | Zhitong                 | 2023/12/09    |
| Dust tester     | WH-SG1000 | SiCT-SE166 | WEWON                   | 2023/12/09    |

**(2) Environmental Conditions:**

Temperature: 24℃      Humidity: 57%RH

**(3) Tested Sample: Sample 001****(4) Test Basis: EN 60529:1991+A2:2013+AC:2019****(5) The test performed in accordance to the criteria listed above, and under the conditions as below:**

- 1) The Test probe of 1 mm diameter is pushed against any opening of the sample with force of 1 N;
- 2) Power on the sample 0.5~1h, to normal working temperature;
- 3) Set the samples in the dust chamber, The talcum powder to be used is 2 kg/ m<sup>3</sup> of the test chamber volume;
- 4) The blower causing the talcum powder to be in suspension is switch on;
- 5) After 1min, the samples are switched off and allowed to cool for 3h whilst the talcum powder remains in suspension.

**(6) Test results**

| Sample No. | Sample name     | Test Results (visual observation)                                                                                              |
|------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------|
| 001        | Christmas light | Test probe can not penetrate into opening of the samples.<br>No dust entered into the sample, the sample passed the IP4X test. |

**2. Test Item: IPX4 test****(1) Detection equipment and instruments**

| Instrument name   | Model   | Serial No. | Equipment manufacturers | Valid Date to |
|-------------------|---------|------------|-------------------------|---------------|
| Water test device | PL-IPXB | SiCT-SE171 | VINOPS                  | 2023/11/19    |

**(2) Environmental Conditions:**

Temperature: 24°C      Humidity: 57%RH

**(3) Tested Sample: Sample 002****(4) Test Basis: IEC 60529:1991+A2:2013+A3:2019****(5) The test performed in accordance to the criteria listed above, and under the conditions as below:**

- internal diameter of the nozzle: 6.3 mm;
- delivery rate: 10.0 L/min  $\pm$  5 %;
- water pressure: to be adjusted to achieve the specified delivery rate;
- core of the substantial stream: circle of approximately 40 mm diameter at 2.5 m distance from nozzle;
- test duration per square metre of enclosure surface area likely to be sprayed: 1 min;
- minimum test duration: 5 min;
- distance from nozzle to enclosure surface: between 2.5 m and 3 m.

**(6) Test results**

| Sample No. | Sample name     | Test Results (visual observation)                                                |
|------------|-----------------|----------------------------------------------------------------------------------|
| 002        | Christmas light | No water entered into live parts of the sample, the sample passed the IPX4 test. |

**SAMPLE PHOTO(S):**



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